

## Diamond Abs 7600B

Acrylonitrile Butadiene Styrene

LyondellBasell Industries

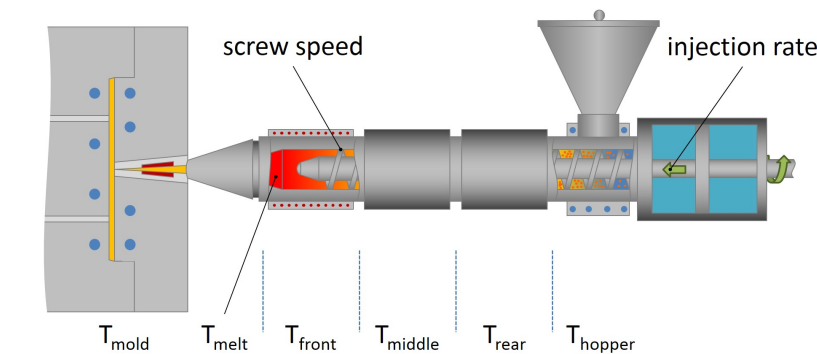
Engineering Plastics

| General                                           |                                                                                    |                    |                         |
|---------------------------------------------------|------------------------------------------------------------------------------------|--------------------|-------------------------|
| Features                                          | <ul style="list-style-type: none"> <li>• Ultra High Impact Resistance</li> </ul>   |                    |                         |
| Agency Ratings                                    | <ul style="list-style-type: none"> <li>• FDA 21 CFR 176.170(c), Table 1</li> </ul> |                    |                         |
| UL File Number                                    | <ul style="list-style-type: none"> <li>• E119088</li> </ul>                        |                    |                         |
| Processing Method                                 | <ul style="list-style-type: none"> <li>• Blow Molding</li> </ul>                   |                    |                         |
| Physical                                          | Nominal Value (English)                                                            | Nominal Value (SI) | Test Method             |
| Melt Mass-Flow Rate (MFR) <sup>1</sup>            |                                                                                    |                    | ASTM D1238              |
| 200°C/5.0 Kg                                      | 0.60 g/10 min                                                                      | 0.60 g/10 min      |                         |
| 230°C/3.8 Kg                                      | 2.7 g/10 min                                                                       | 2.7 g/10 min       |                         |
| Mechanical                                        | Nominal Value (English)                                                            | Nominal Value (SI) | Test Method             |
| Tensile Strength <sup>2</sup> (Yield)             | 5730 psi                                                                           | 39.5 MPa           | ASTM D638               |
| Flexural Modulus - Tangent <sup>3</sup>           | 292000 psi                                                                         | 2010 MPa           | ASTM D790               |
| Impact                                            | Nominal Value (English)                                                            | Nominal Value (SI) | Test Method             |
| Notched Izod Impact                               |                                                                                    |                    | ASTM D256               |
| 73°F (23°C), 0.125 In (3.18 Mm)                   | 8.1 ft·lb/in                                                                       | 430 J/m            |                         |
| Hardness                                          | Nominal Value (English)                                                            | Nominal Value (SI) | Test Method             |
| Rockwell Hardness (R-scale)                       | 102                                                                                | 102                | ASTM D785               |
| Thermal                                           | Nominal Value (English)                                                            | Nominal Value (SI) | Test Method             |
| Deflection Temperature Under Load                 |                                                                                    |                    | ASTM D648               |
| 264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm) | 171 °F                                                                             | 77.2 °C            |                         |
| 264 Psi (1.8 Mpa), Annealed, 0.125 In (3.18 Mm)   | 201 °F                                                                             | 93.9 °C            |                         |
| Vicat Softening Temperature                       | 220 °F                                                                             | 104 °C             | ASTM D1525 <sup>4</sup> |
| Flammability                                      | Nominal Value (English)                                                            | Nominal Value (SI) | Test Method             |
| Flame Rating (0.06 In (1.5 Mm))                   | HB                                                                                 | HB                 | UL 94                   |



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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 to 185 °F           | 80 to 85 °C        |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Suggested Max Moisture | 0.10 %                  | 0.10 %             |
| Rear Temperature       | 374 to 482 °F           | 190 to 250 °C      |
| Middle Temperature     | 374 to 482 °F           | 190 to 250 °C      |
| Front Temperature      | 374 to 482 °F           | 190 to 250 °C      |
| Mold Temperature       | 104 to 176 °F           | 40 to 80 °C        |
| Injection Rate         | Moderate-Fast           | Moderate-Fast      |

Notes

- <sup>1</sup> Procedure A
- <sup>2</sup> 2.0 in/min (51 mm/min)
- <sup>3</sup> 0.050 in/min (1.3 mm/min)
- <sup>4</sup> Loading 1 (10 N)

Notes

These are typical property values not to be construed as specification limits.

